TOETSO" 2462360

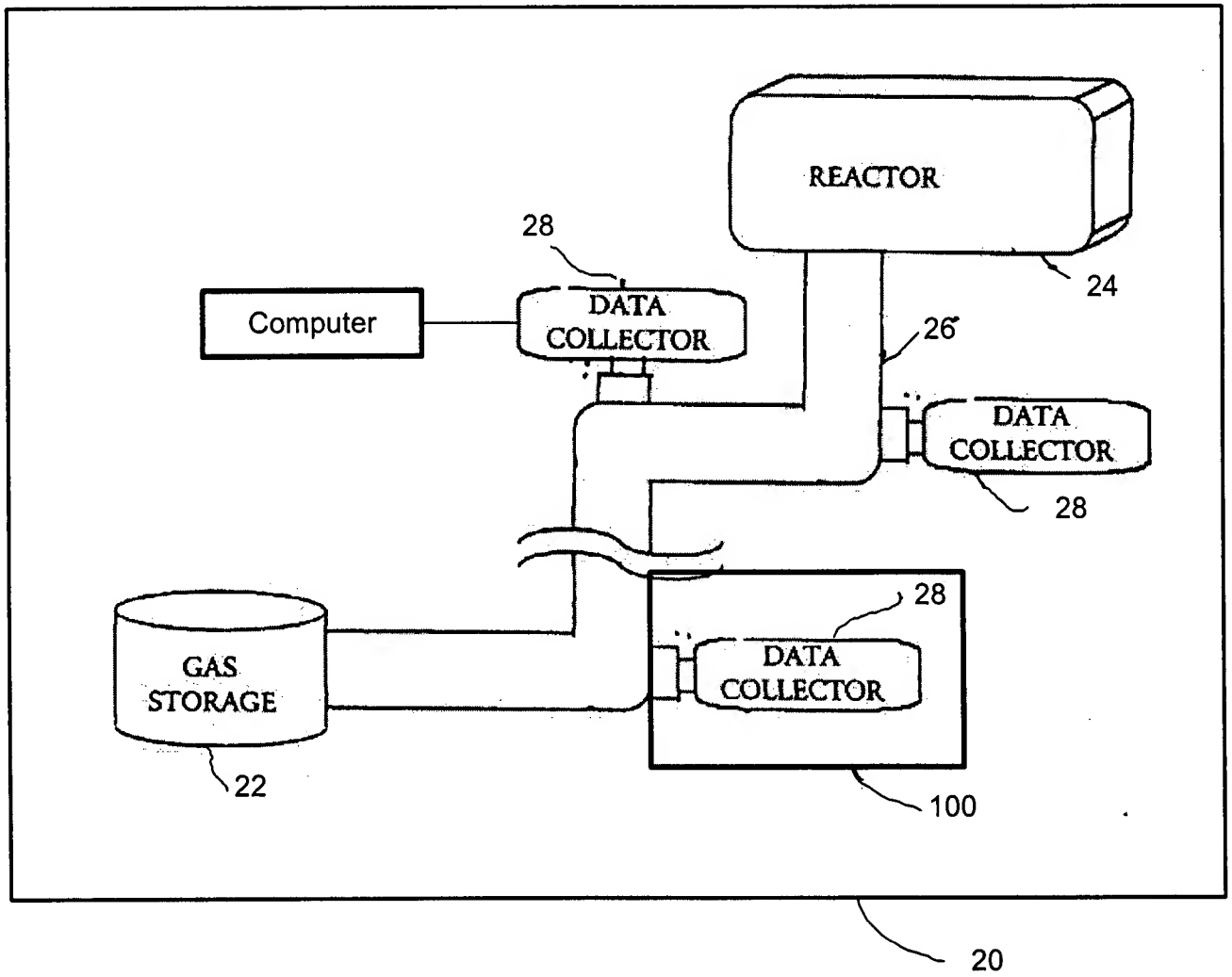

Figure 1

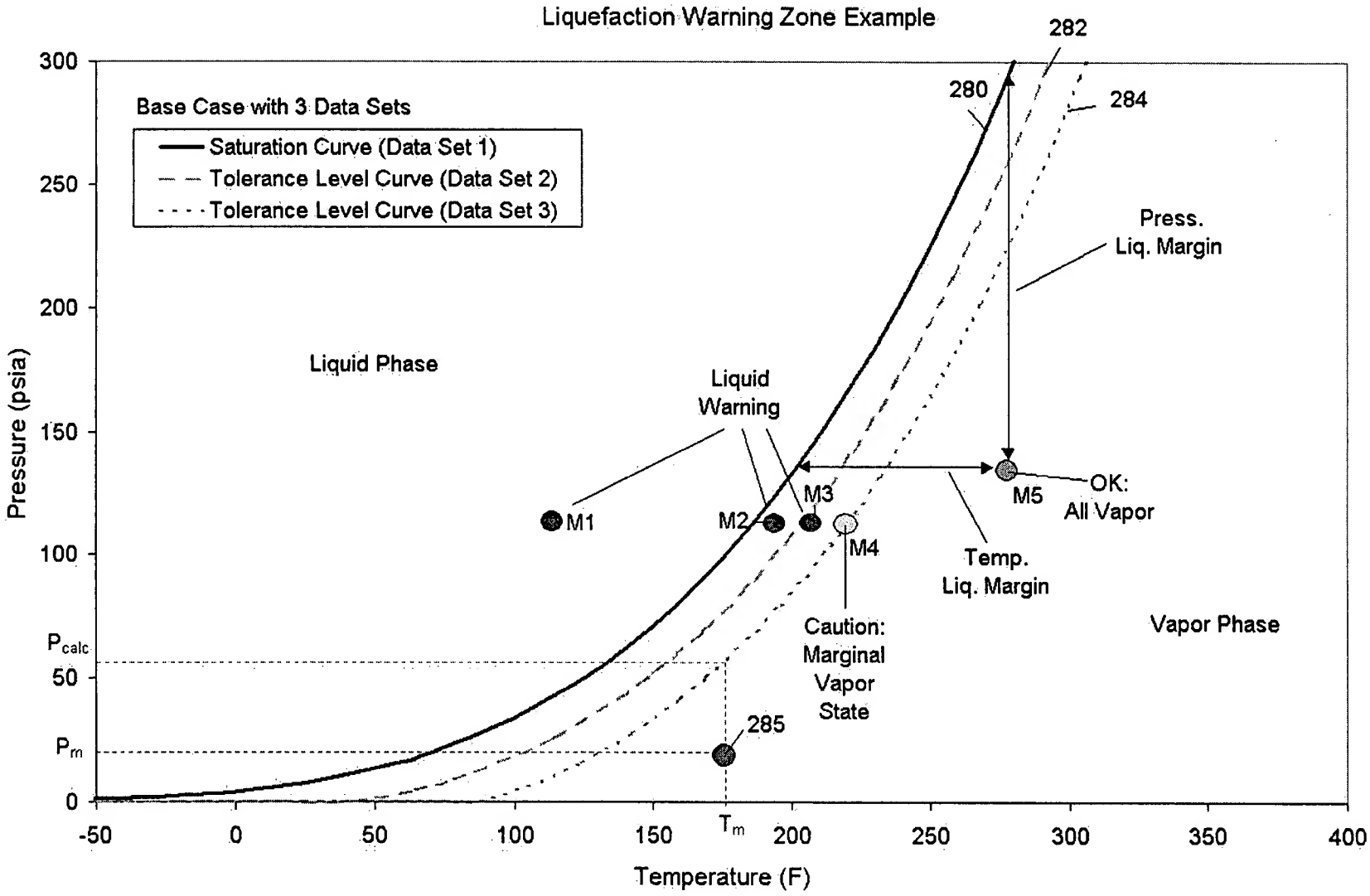
Liquefaction Warning Zone Example
Base Case with 3 Data Sets
Saturation Curve (Data Set 1)
Tolerance Level Curve (Data Set 2)
Tolerance Level Curve (Data Set 3)
Pressure (psia)
Temperature (F)
Liquid Phase
Vapor Phase
Liquid Warning
Press. Liq. Margin
Temp. Liq. Margin
Caution: Marginal Vapor State
OK: All Vapor
M1
M2
M3
M4
M5
280
282
284
285
P_{calc}
P_m
T_m
300
250
200
150
100
50
0
-50
0
50
100
150
200
250
300
350
400

Figure 2

TOE 90 2186280

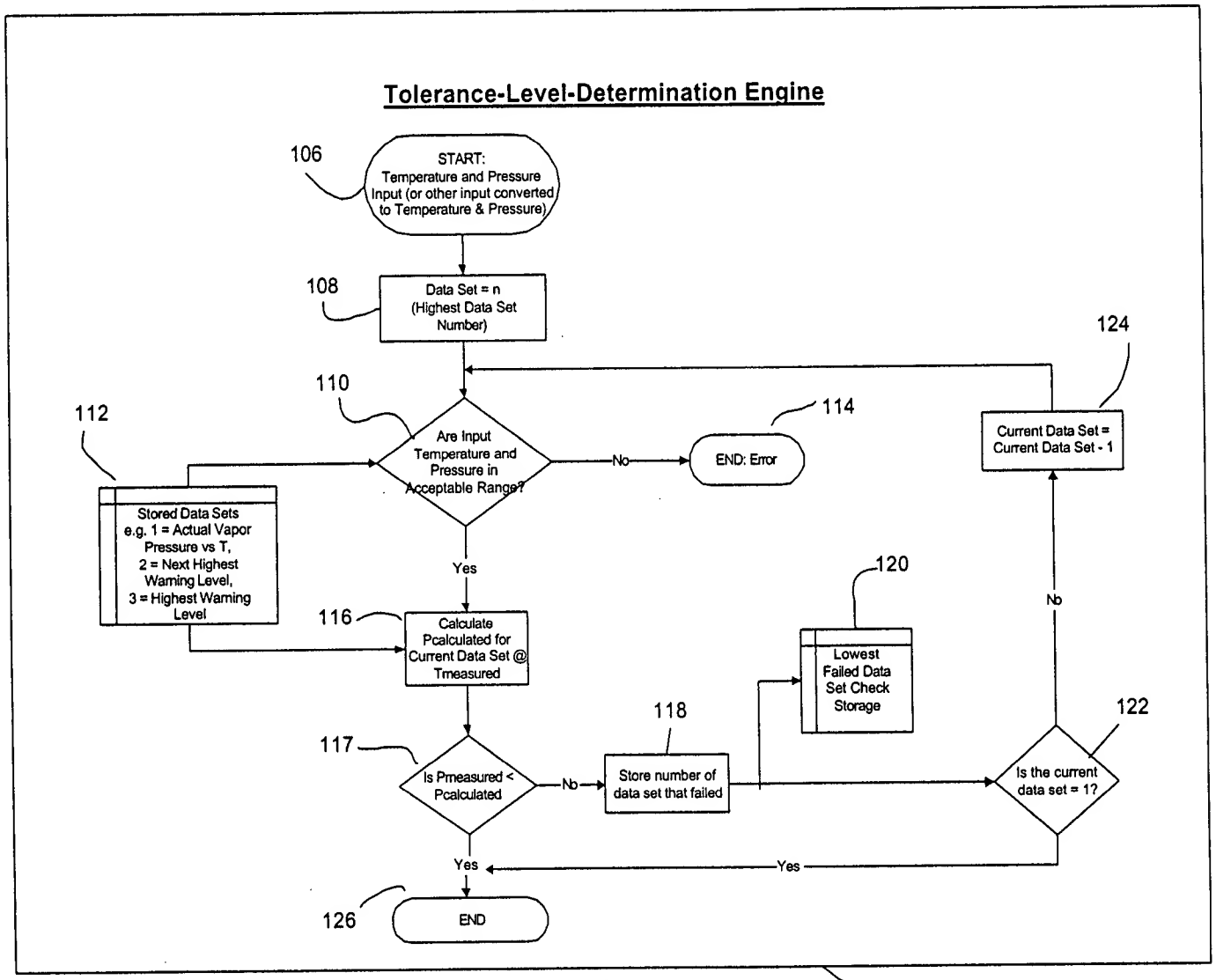

Figure 3

TOC-90 2116228.60

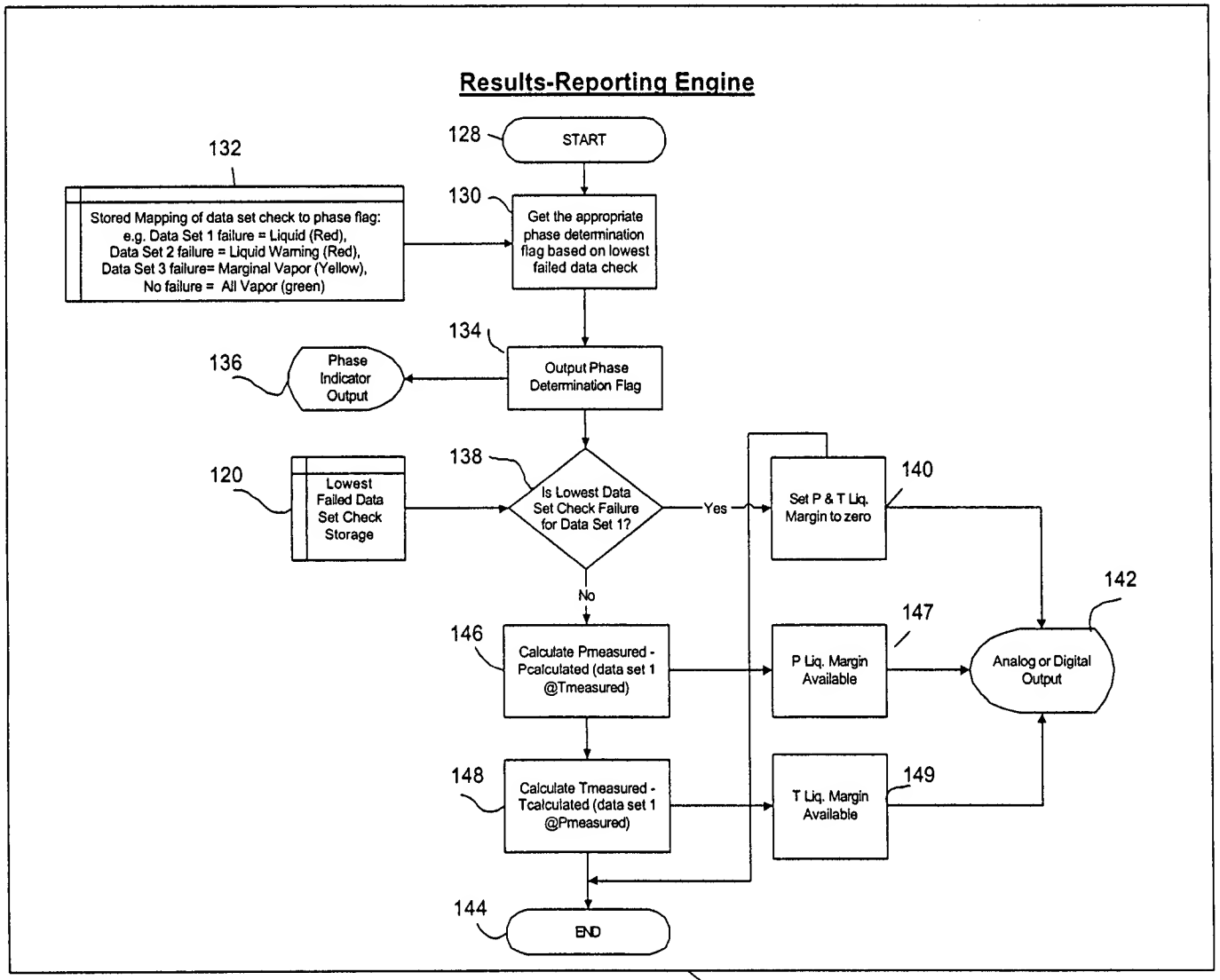

Figure 4

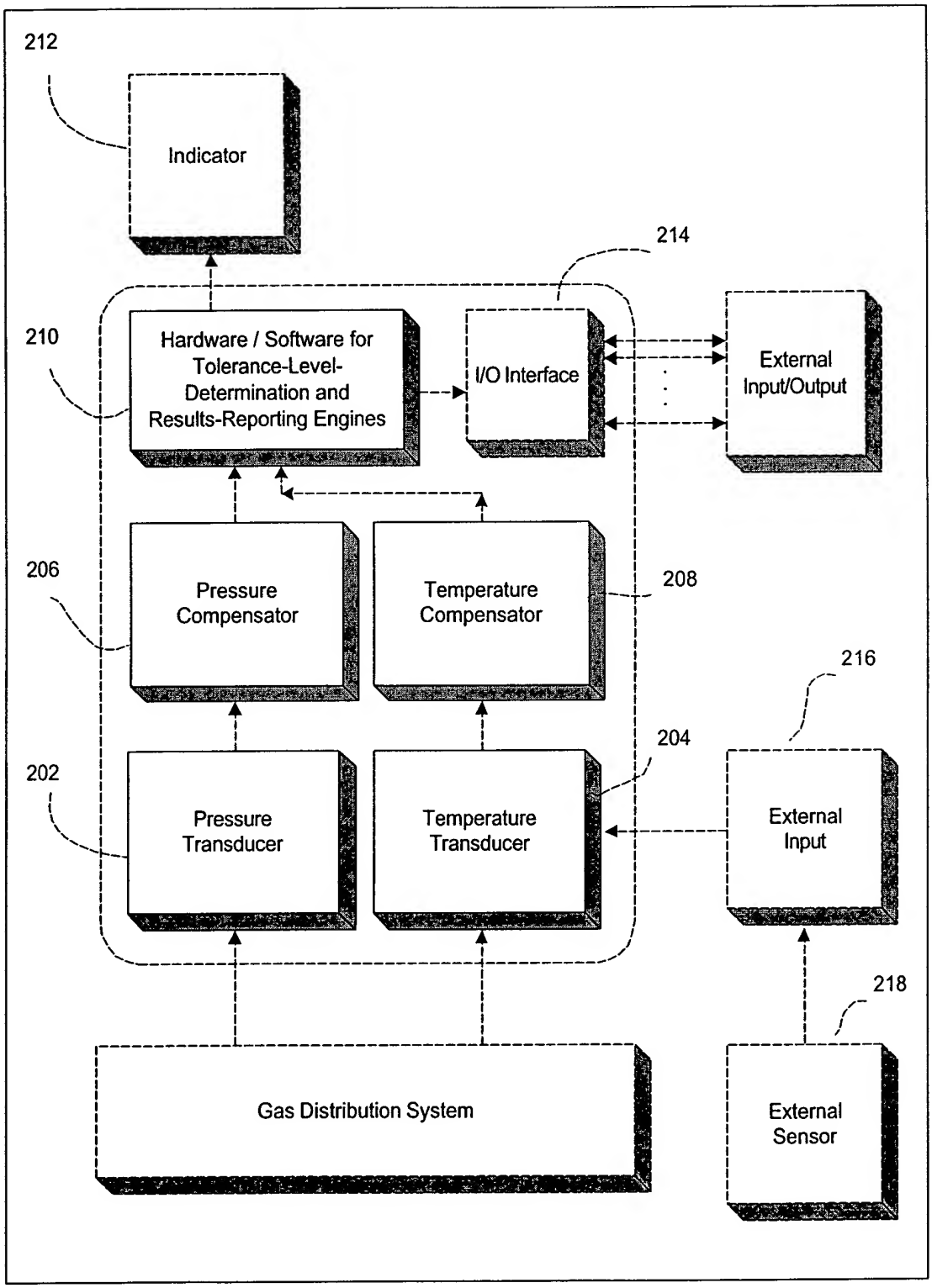
212
Indicator
214
210
Hardware / Software for Tolerance-Level-Determination and Results-Reporting Engines
I/O Interface
External Input/Output
206
Pressure Compensator
Temperature Compensator
208
216
204
202
Pressure Transducer
Temperature Transducer
External Input
218
Gas Distribution System
External Sensor

Figure 5 200

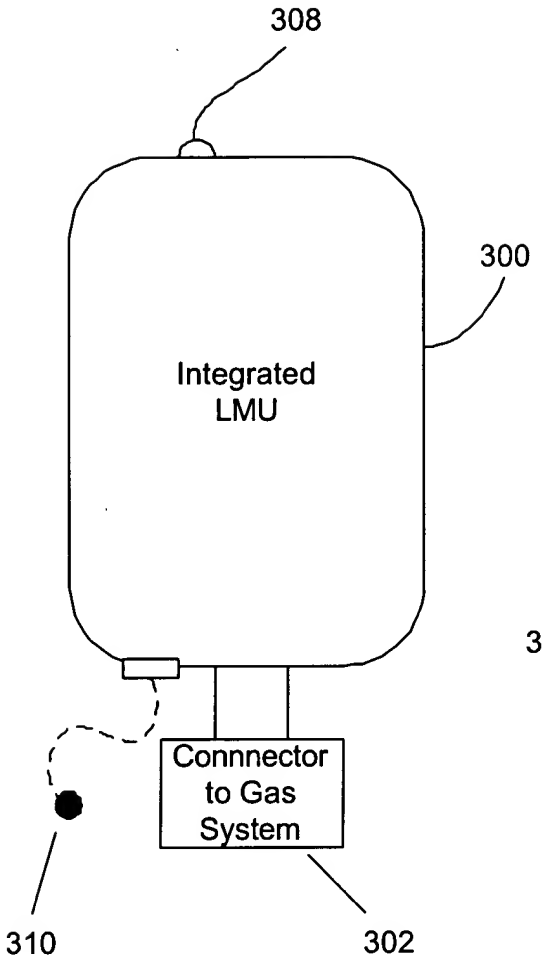

Figure 6A

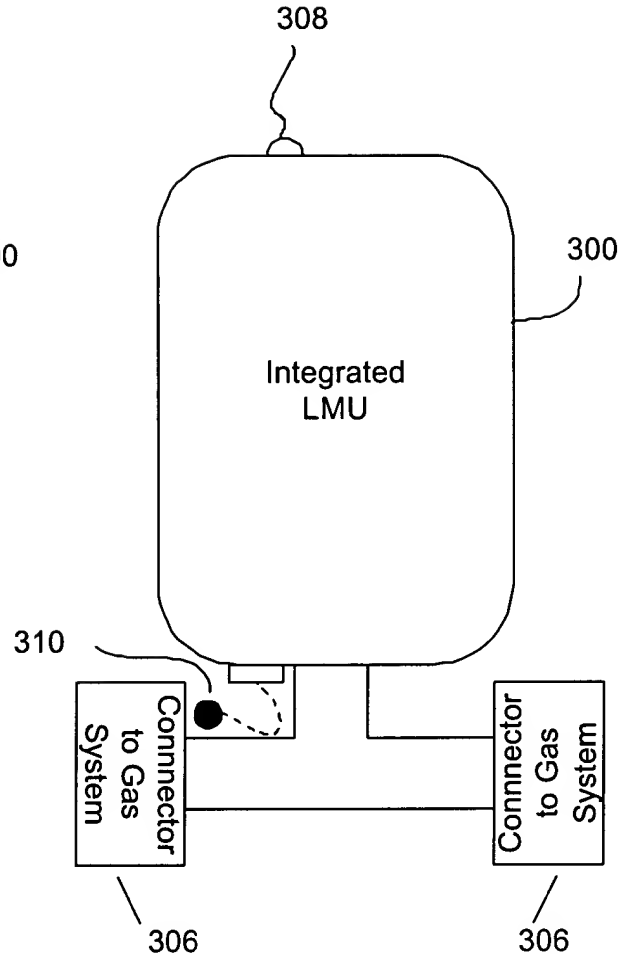

Figure 6B

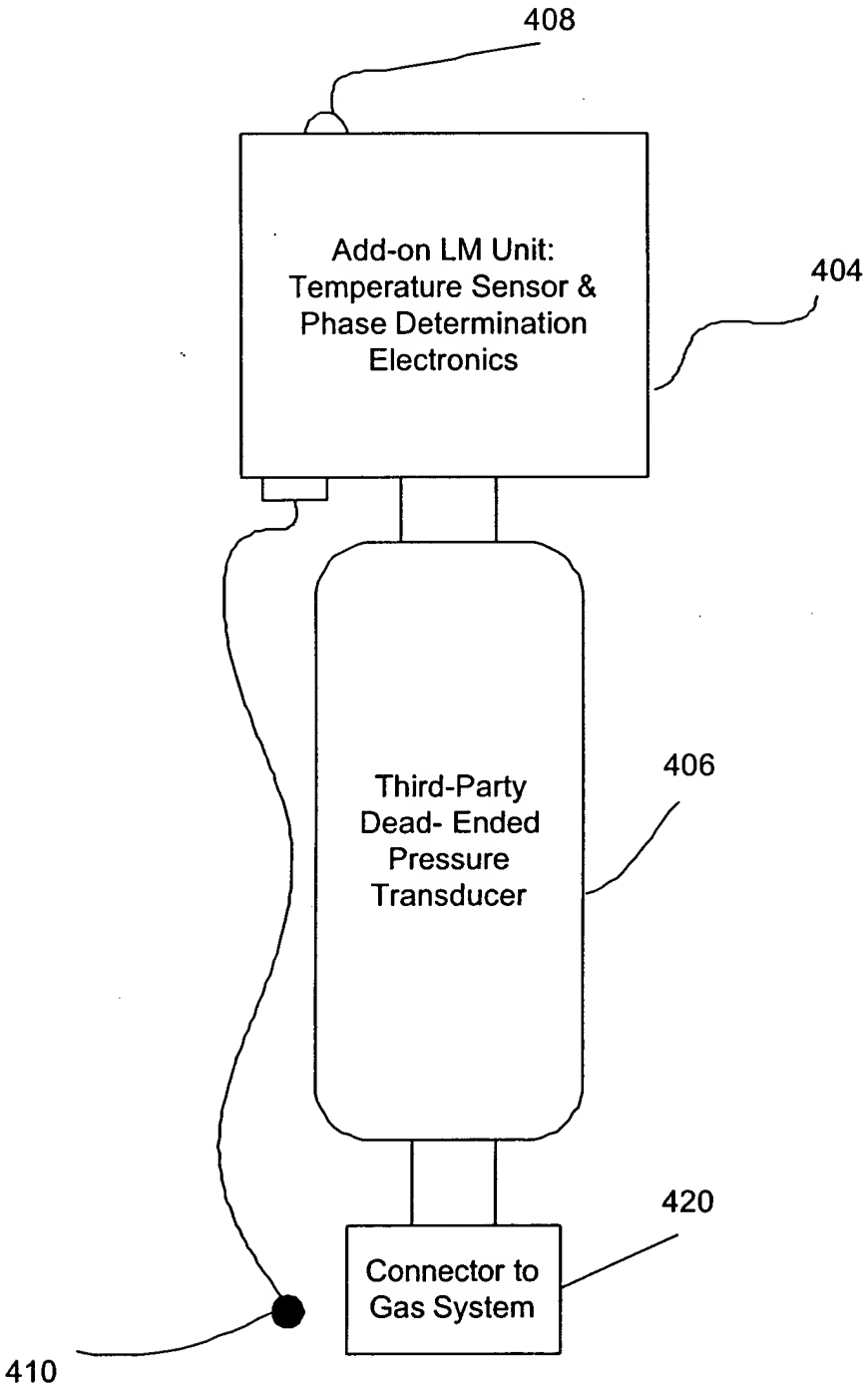
408
Add-on LM Unit:
Temperature Sensor &
Phase Determination
Electronics
404
Third-Party
Dead- Ended
Pressure
Transducer
406
420
Connector to
Gas System
410

Figure 7